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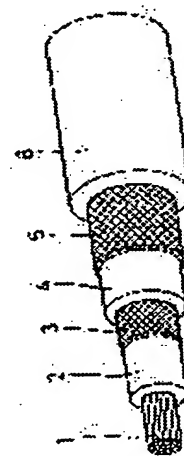
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4) COAXIAL CABLE AND MANUFACTURE THEREOF

(57)Abstract:

PURPOSE: To obtain a coaxial cable capable of bearing high temperature and a high-radiation field by constituting an inner protective layer and an outer protective layer by a specific bridging body.

CONSTITUTION: A foaming insulating layer 2, a braided outer conductor 3 and an inner protective layer 4 are given on an inner conductor 1 by turns, next, an electron-ray is irradiated from above the inner protective layer 4 for simultaneously bridging two layers of the inner protective layer 4 and the foaming insulating layer 2, next a braided shielding layer 5 and an outer protective layer 6 are given on the inner protective layer 4 and the electron-ray is irradiated from above the outer protective layer 6 for bridging the outer protective layer 6. The outer protective layer 6 consists of a bridged body of a composite, in which an antioxidant such as 4, 4'-butyridene-bis(6-t-butyl-3-methylphenol), 1,1,3-tris(dimethyl-4-hydroxy-5-t-buthylphenol)-buthane is blended with polyolefin resin. This coaxial cable withstands the use in a high-radiation field above 500Mrad, and therefore is suited for a cable for a nuclear power station, and defence and space development.



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